#### APPENDIX A

ANALYSIS OF TREATED WASTEWATER AND SLUDGE GENERATED BY WASTEWATER TREATMENT UNIT

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THE MAYOR AND COMMISSIONERS

OF THE FOWN OF ELKTON, MARYLAND

Administrator ROBERT R. REED (301) 398-0970

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Mayor
JAMES G. CROUSE

Commissioners:
JESSE P. BOYD
CONSTANCE W. DUNBAI
KENNARD W. MERREY
J. EVANS McKINNEY

December 12,1988

RECEIVED

DEC 1 9 1988

ELKTON, MD

John Van Hulle Air Produts and Chemicals, Inc. 329 West Main Street Elkton, Md 21921

Dear Mr. Van Hulle:

Enclosed with this letter are the results of the sample taken from your plant on December 2,1988. If you have any questions or concerns please feel free to contact me at any time. I thank you for all your cooperation in this matter.

Thanks Again,

Douglas R. Connell

Pretreatment Program Adm.

# ELKTON, MARYLAND

0	<b>T</b> ype of Source Sample	of Vaste:	ndustria) +	neds Inc. realess INTERMIDA COMPOSITE	TE 🗙 II	NAL	In ope	
0	COLLECTION DATE:	12/2/85	0	TIME: /0 /00	€3	/@		
			TEST RESULT	rs				
0	рн: (	<u>2.3</u>	,					
	RESID	UAL CHLORIN	E: Free <u>0</u> . Total <u>o</u>	<del></del>				
	FECAL	COLIFORM _		/100 ml/MPN				
0	B.O.D	., Day 353	mg/l					
	SUSPE	NDED SOLIDS	72 mg/1		•			•
	Disso	LVED OXYGEN	mg/1					
0	TOTAL	PH DSPHOROUS	mg/l					
	TOTAL	SOLIDS	<b>.</b> .					
	VOLIT	IAL SOLIDS						
0	SOLUB	LE 3.0.D. <sub>5</sub>	DAY mg/	<b>/1</b>				
	Laboratory Tec	hnichian: 1	S. Cornel					
	<del></del>	<del></del>		·	<del></del>		<del></del>	<del></del>

REMARKS

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United Engineers
 Constructors Inc.
 Steams Catalytic Division
 Environmental Laboratory.

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201 E. 10th Street P.O. Box 434 Marcus Hook, PA 19061 215 485 5377

## United Engineers & Constructors

A Raytheen Company

07/26/88

MS. Stephanie Boisitz AFCI (Elkton) 329 West Main St. Elkton, MD 21921

Subject: U.E.& C. Contract No. 99216 APCI (Elkton) LABORATORY ANALYSIS

Dear Ms. Boisitz:

Attached is the analytical report for samples submitted to us 07/18/88.

The samples "as received" were handled as described in the report and the reporting basis is noted.

If there are any questions, please do not hesitate to contact me @ (215) 485-5377.

AIR PRODUCTS & CHEM. INC.
RECEIVED

JUL 2 9 1988

ELKTON, MD

very truly yours,

Joe C. Watt

Laboratory Services Director

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### United Engineers & Constructors

A Raytheen Company

Steams Catalytic Division

#### METHOD REFERENCE

Stearns Catalytic Division of United Engineers and Constructors employs Method 625 for the GC/MS analysis of semi-volatile priority pollutant organics in liquid matrices. This method is published in 40CFR 136 dated 9/25/87. Method SW-846; 3550 and 8270 are used for soils and solid matricles (3rd edition).

#### METHOD SUMMARY

The liquid sample is serially extracted with methylene chloride at acid and basic pHs. The extract is dried and concentrated to one ml. The extract is then analyzed by high resolution capillary chromatography— low resolution electron impact mass spectrometry. Semi-volatile surrogate standards are introduced at the extraction. Percent recoveries of these surrogates are used as a barometer of method efficiency.

Tentatively identified Compounds (if Applicable)

Unknown compounds are tentatively identified by comparison to the National Bureau of Standards (NBS) mass spectral library. Exclusive of any priority pollutants (specific to this analysis), surrogate standards, and internal standard peaks, 25 compounds greater than 10% of the closest internal standard were tentatively identified by the mass spectral library search and the estimated concentrations were computed.

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## United Engineers & Constructors

A **Raytheen** Company

Stearns Catalytic Division

Page No. 07/26/88 6230

#### STEARNS CATALYTIC DIVISION LABORATORY DATA SUMMARY

	LOG NO	SAMPLE DESCRIPTION	ANALYSIS	TREATMENT	RESULT	DATE	DATE
		•				ANALYSIS	ANALYSIS
						STARTED	COMPLETED
	20712	CHALK SAMPLE	CORROSIVITY		NEG	07/25/88	07/25/88
	20712	CHALK SAMPLE	EP LEACHATE	TOTAL	COMPLETE	97/18/88	07/19/88
	20712	CHALK SAMPLE	GCMS/BNA + 25		SEE ATTACHED	07/25/88	07/25/88
	20712	CHALK SAMPLE	GCMS/VOA + 15		SEE ATTACHED	07/18/88	07/20/88
	20712	CHALK SAMPLE	IGNITABILITY		NEG	07/25/88	07/25/88
	20712	CHALK SAMPLE	REACTIVITY-CN		NEG (250 mg/kg	07/19/88	07/20/88
	20712	CHALK SAMPLE	REACTIVITY-S		MEG (500 mg/kg	07/19/88	07/19/88
	20712	CHALK SAMPLE	TOC		90,000 ug/g	07/22/88	07/22/88
	20712	CHALK SAMPLE	TOX		680 ug/g as C1-	07/25/88	07/25/88
	20712	CHALK SAMPLE	PH-DILUTED		9.1 units	07/19/88	07/19/88
	20717	EP LEACHATE OF SAMPLE #20712	AA Ag	TOTAL	ND(0.01)mg/1	07/19/88	07/19/88
	20717	EP LEACHATE OF SAMPLE #20712	AA AS	TOTAL	ND(0.05)mg/1	07/20/88	07/20/88
	20717	EP LEACHATE OF SAMPLE #20712	AA BA	TOTAL	0.5 mg/l	07/19/88	07/19/88
	20717	EP LEACHATE OF SAMPLE #20712	AA Cd	TOTAL	ND(0.01)mg/l	07/19/88	07/19/88
,	20717	EP LEACHATE OF SAMPLE #20712	AA Cr	TOTAL	ND(0.02)mg/1	07/19/88	07/19/88
	20717	EP LEACHATE OF SAMPLE 420712	AA Hg	TOTAL -	ND(0.002)mg/1	07/20/88	07/20/88
	20717	EP LEACHATE OF SAMPLE #20712	AA PD	TOTAL	ND(0.1)mg/1	07/19/88	07/19/88
	20717	EP LEACHATE OF SAMPLE #20712	AA Se	TOTAL	MD(0.05)mg/1	07/20/88	07/20/88
		EP LEACHATE OF SAMPLE #20712	GC/HERBICIDES	2,4-D SILVEX	•	07/20/88	07/25/88
		EP LEACHATE OF SAMPLE 420712	GC/HERBICIDES	2,4,5-TP	ND(0.1)ug/1	07/20/88	07/25/88
	20737	EP LEACHATE OF SAMPLE #20712	GC/PESTICIDES		SEE ATTACHED	07/21/88	07/22/88

ND = Not Detected (value reported is limit of detection)

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# **United Engineers**

Stearns Catalytic Division

LABORATOR: DATA SUMMARY ORGANIC PRIORITY!POLLUTANT ANALYSIS BASE NEUTRAL ACID FRACTION BY GC/MS

633 NO. 8 20712

SUMMARY NO.

SAMPLE DESC. CHALK SAMPLE

ANALYZED BY

COMPOUND NAME	Detecuion Limit (ug/kg)	•
N-NITROSODIMETHYLAMINE	10,000	ND
PHENOL	10,000	ND
ANTUTNE	10,000	ND
2- CHI OROPHENOL	10,000	ND
BIS(2-CHLOROETHYL) ETHER	10,000	ND
1,3-DICHLOROBENZENE	10,000	ND
1,4-DICHLORGBENZENE	10,000	ND
RENTYL ALCOHOL	10,000	ND
11, 2-DICHLOROBENZENE	10,000	ND .
2-METHYL PHENOL	10,000	ND
BIS(2-CHLOROISOPROPYL) ETHER	10,000	ND
4- METHYL PHENOL	10,000	ND
HEXACHLOROETHANE	10,000	ND
N-NITROSO-DI-N-PROPYLAMINE	10,000	ND
NITROBENZENE	10,000	ND
) SICPHORONE	10,000	ND
2-NITROPHENOL	10,000	ND
2,4-DIMETHYLPHENOL	10,000	ND
BENZOIC ACID	50,000	ND
BIS (2-CHLOROETHOXY) METHANE	10,000	ND
2.4-DICHLOROPHENOL	10,000	ND
1,2,4,-TRICHLOROBENZENE	10,000	ND
NAPHTHALENE	10,000	ND:
4 - CHLOROANTLINE	10,000	ND
HEXACHLOROBUTAD LENE	10,000	ND
4-CHLORO-3-METHYL PHENOL	10,000	ND
2 -METHYL NAPHTHALENE	10,000	ND
HEXACHLOROCYCLOPENTAD LENE	10,000	ND
2,4,6-TRICHLOROPHENOL	10,000	ND
2,4,5-TRICHLOROPHENOL	50,000	ND
2 - CHUORONAPHTHALENE	10,000	ND
2- NITEOANIMINE	50,000	ND
ACENAPHTHYLENE	10,000	ND

ND = Not detected

# LABORATORY DATA SUMMARY ORGANIC PRIORITY POLLUTANT ANALYSIS BASE NEUTRAL ACID FRACTION BY GC/MS (page 2)

	Detection Sam	o I.e
COMPOUND NAME	Limit (ug/kg)Resi	ult (ug/kg)
DIBENZOFURAN	10,000	ND
DIMETHYL PHTHALATE	10,000	ND
2,6-DINITROTOLUENE	10,000	· ND
3-NITROANILINE	50,000	ND .
ACENAPHTHENE	10,000	ND
2,4-DINITROPHENOL	50,000	ND
4-NITROPHENOL	50,000	ND
2,4-DINITROTOLUENE	10,000	ND,
DIETHYL PHTHALATE	10,000	ND
FLUORENE	10,000	ND
4-CHLOROPHENYLPHENYL ETHER	10,000	ND
4 ·NITROANILINE	50,000	ND
2- METHYL-4,6-DINITROPHENOL	10,000	ND
N-NITROSODIPHENYLAMINE	10,000	ND
4-BROMOPHENYLPHENYL ETHER	10,000	ND
HEXACHLOROBENZENE	10,000	ND
FENTACHLOROPHENOL	50,000	ND
PHENANTHRENE	10,000	ND
ANTHRACENE	10,000	ND
DI-N-BUTYL PHTHALATE	10,000	ND
FLUORANTHENE	10,000	ND
BENZIDINE	10,000	ND
PYRENE.	10,000	ND
BUTYL BENZYL PHTHALATE	10,000	ND
3,31-DICHLOROBENZIDENE	10,000	ND
BENZO(a)ANTHRACENE	20,000	ND
ELS(2-ETHYLHEXYL)PHTHALATE	10,000	ND -
CHRYSENE	10,000	: ND
DI-N-OCTYL PHTHALATE	10,000	ND
SENZO(b)FLUORANTHENE	10,000	ND -
BENZO(K)-FLUORANTHENE	10,000	ND
BENZO(a)PYRENE	10,000	ND
INDENO(1,2,3,-cd)PYRENE	10,000	ND
DIBENZO(a,h)ANTHRACENE	10,000	ND -
BENZO(g,h,i,)PERYLENE	10,000	ND
SURROGATE RECOVERY		
Wheno - DE 76%	Nitrobenzene-D5	66%

Pheno: -D6 76% 2-Fluorophenol 58%

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2.4.6-Tribromopheno: 30%

Approved By

Nitrobenzene-D5 66% 2-Fluorobiphenyl 70% 4-Terphenyl-D14 115%  $\circ$ 

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## **United Engineers** & Constructors

A Raytheen Company

LABORATORY DATA SUMMARY

**Steams Catalytic Division** 

ORGANIC PRIORITY POLLUTANT ANALYSIS VOLATILE ORGANICS by GC/MS

LOG NO. SAMPLE DESC. 20712 CHALK SAMPLE SUMMARY NO. 6230 ANALYZED BY: SWV

		Datact	ion	Sample	
	COMPOUND NAME.		(ug/kg)	•	(uazka)
			(dg//tg/		(ugy ngy
	chloromethane	1	0	ND	•
	bromomethane	1	0	ND	
	vinyl chloride	-1	o .	ND	
	chloroethane	1	O.	ND	
	mathylene chloride		5	ND .	
	trans-1,3-dichloropropene		5	ND	
	cis-1,3-dichloropropene		5 <sup>.</sup>	ND	
	1,1-dichloroethene		5	ND	
	1,1-dichloroethane		5	ND	
	trans-1,2-dichloroethene		5	ND	
	chloroform		5	21,	
	1,2-dichloroethane		5	ND	
	1,1,1-trichloroethane		5	ND	
	carbon tetrachioride		5	ND .	
	bromodichloromethane	-	5	ND	
	1,2-dichtoropropane		5	ND	
	trichloroethene		5	ND	
	benzene		5	ND	,
	dibromoch Loromethane .		5	ND.	
	1,1,2-trichloroethane		5 ·	ND	
	2-chiororethylvinyl ether	5	0	ND	
	bromoform		5	ND	
	tetrachloroethene		5	ND	
*1	1,1,2,2-tetrachloroethane		5	ND	· -
	toluene		5	ND	
	chioropenzene		5	ND	
/	ethyloenzene		5	110	
	xy:enes (total)		5	<b>57</b> 0	)
	acecone	. 1	0	190 /	
	carbon disulfide		5	140	
•	2-putanone	1	0	ND	•
	vinyl acetate	1	0	ND	
	4-methy1-2-pentanone	. 1	0	ND	
	2-hexanone	1	0	ND	
	styrene		5	ИD	
	acrolein	20	0	ND	-
	acrylonitrile	10	0	ND	

SURFIGGATE RECOVERY

Toluene-D8 129% 4-bromofluoropenzene 68%

ND = Not detected

Approved By:

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#### United Engineers & Constructors

A Raytheen Company

Steams Catalytic Division

#### METHOD REFERENCE

Stearns Catalytic Division of United Engineers and Constructors employs Method 624 for the GC/MS analysis of volatile priority pollutants in liquid matrices. This method is published in 40CFR 136 dated 9/25/87. Method SW-846; 8240 is used for soils and/or matrices (3rd edition).

#### METHOD SUMMARY

An inert gas is bubbled through a sample contained in a specially designed purging chamber at ambient temperature. The purgeables are efficiently transferred from the aqueous phase to the vapor phase. The vapor is swept through a sorbent column where the purgeables are trapped. After purging is completed, the sorbent column is heated and back flushed with the inert gas to desorb the purgeables onto a gas chromatographic column which are then detected with a mass spectrometer. Volatile surrogate standards are introduced at the instrument and are deuterated and/or select compounds that analytically mimic the response of certain analytes. Known concentrations of these surrogates are added to the sample and a percent recovery is calculated. This recovery is reported at the bottom of the data summary and acts as a barometer of method efficiency for the individual sample.

#### TENTATIVELY IDENTIFIED COMPOUNDS (IF APPLICABLE)

Unknown compounds are tentatively identified by comparison to the National Bureau fo Standards (NBS) mass spectral library. Exclusion of any priority pollutants (specific to this analysis), surrogate standard, and internal standard peaks, fifteen (15) compounds greater whan 10 % of the closest internal standard were tentatively identified by the mass spectral library search and the estimated concentrations were computed.

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#### United Engineers & Constructors

A Raytheen Company

Stearns Catalytic Division

# LABORATORY DATA SUMMARY ORGANIC POLLUTANT ANALYSIS PESTICIDES

LOG NO.

20737

SUMMARY NO.

6230

SAMPLE DESC. ER LEACHATE OF 20712

ANALYZED BY

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DILUTION MULTIPLIER.

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SAMPLE MATRIX WATER

• •	Detection	Sample
	Limit	Result
COMPOUND NAME	(ug/L)	(ug/L)
at BHC	0.004	ND
g-BHC	0.004	ND
b- BHC	. 0.02	ND
neptachion	0.02	ND ~
d-BHC	0.004	ND
aidrin	0.004	ND
heptachion epoxide	0.004	ND
endosulfan l	0.008	ND
4 , 4 ' - DDE	0.008	ND
dieldrin	0.008	ND
endrin	0.02	ND
endosulfan II	0.02	ND
4 , 4 ' - DDD	0.02	ND
4,4'-DDT	0.122	ND
endrin aldehyde	0.02	ND
endosulfan sulfate	0.02	ND
endrin ketone	0.02	ND,
methoxychior	0.816	ND
chiordane	0.816	ND -
toxaphene	8.163	ND

ND= Not detected

Approved By Wiltiam J. Cover

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201 E. 10th Street P.O. Box 434 Marcus Hook, PA 19061 215 485 5377

## United Engineers & Constructors

A **Baytheen** Company

08/22/88

Mr John Van Holle APCI (Elkton) 329 West Main St. Elkton, MD 21921

Subject: U.E.& C. Contract No. 99216 APCI (EIKton) LABORATORY ANALYSIS

Dear Mr. Van Holle:

Attached is the analytical report for samples submitted to us 07/28/88.

The samples "as received" were handled as described in the report and the reporting basis is noted.

If there are any questions, please do not hesitate to contact me @ (215) 485-5377.

RECEIVED
AUG 2 5 1988

ELNIUN, 140

very truly yours,

Joe C. Watt

Laboratory Services Director

JCW/ibm Attachment 6274

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## United Engineers & Gonstructors

A **Randboom** Company

Steams Catalytic Division

Page No 08/22/88 6274

STEARNS CATALYTIC DIVISION LABORATORY DATA SUMMARY

LOG NO	SAMPLE DESCRIPTION	ANALYSIS	TREATMENT	RESULT	DATE ANALYSIS STARTED	DATE ANALYSIS COMPLETED
20892	CHALK SAMPLE	Ash	as received	25.2 %	08/01/88	08/01/88
20892	CHALK SAMPLE	BTU		1,650 STU/ID	07/28/88	07/28/88
20892	CHALK SAMPLE	FREE LIQUID	874 RCRA	NEG	08/03/88	08/03/88
20892	CHALK SAMPLE	TCLP BNA		COMPLETED	08/03/88	08/04/88
20892	CHALK SAMPLE	TCLP VOA		COMPLETED	08/10/88	08/11/98
21034	TCLP LEACHATE OF #20892	GCMS/BNA		SEE ATTACHED	08/18/88	08/18/88
21035	TCLP LEACHATE ZHE OF #20892	GCMS/VOA		SEE ATTACHED	08/10/88	08/17/88

ND = Not Detected (value reported is limit of detection)

APPROVED BY:

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### United Engineers & Constructors

A Raytheen Company

Steams Catalytic Division

TOXICITY CHARACTERISTIC LEACHATE PROCEDURE-(TCLP)
SEMI-VOLATILE FRACTION BY GC/MS

LOG NO. 21034

SUMMARY NO:

6274

SAMPLE DESC.

TCLP LEACHATE OF

ANALYZED BY: S'

SWÝ

# 20892

	DETECTION	SAMPLE
COMPOUND NAME	LIMIT(ug/I)	RESULT (ug/1)
Bis(2-chloroethyl)ether	10	ND
Total Cresols (o,m,p)	10	ND
1,2-Dichlorobenzene	10	ND
1,4-Dichlorobenzene	10	ND
2,4-Dinitrotoluene	50	ND
Hexachiorbenzene	10	ND
Hexachlorobutadiene	10	ND
Hexachioroethane	10	ND
Nitrobenzene	10	ND .
Pentachlorophenol	50	ND
Phenol	10	ND
2,3,4,6-Tetrachlorophenol	* 200	ND
	50	ND
2,4,5-Trichlorophenol 2,4,6-Trichlorophenol	10	ND .

ND denotes not detected

\* Approximate value determined by SW-846; 8270

Surrogate Recovery:

Nitrobenzene-D5	93%	Pheno!-D6	53%
2-Fluorobipheny!	117%	2-Fluorophenol	75%
Tarnhany L-D14	109%	2,4,6-Tribromophenol	33%

Note: The TCLP Leachate contained no other compounds

Approved By:

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Steams Catalytic Division

#### TOXICITY CHARACTERISTIC LEACHATE PROCEDURE (TCLP) VOLATILE FRACTION BY GC/MS

21035 LOG NO.

SUMMARY NO:

SAMPLE DESC. TOLP LEACHATE ZHE

ANALYZED BY: SWV

OF #20892

COMPOUND NAME	DETECTION	SAMPLE	
	LIMIT (ug/I)	RESULT	(ug/1)
Acrylonitrile	5	ND	
Benzene	. 5	ND	
Carbon Disulfide	5 '	ND	
Carbon Tetrachloride	5	ND	
Chlorobenzene	5.	ND	
Chloroform	5	ND	
1,2-Dichioroethane	5	ND	
1,1-dichloroethylene	5	ND	
Isobutanol	1000	ND	
Methylene Chloride	5	ND	
Methyl ethyl ketone	10	ND	
1,1,1,2-tetrachioroethane	5	ND	
1,1,2,2,-tetrachloroethane	5	ND	
Tetrachioroethylene	5	ND	
Toluene	5	ND	
1,1,1-Trichloroethane	5	ND	
1,1,2-trichloroethane	5	ND	, ,
Trichloroethylene	5	ND	
Vinyl chloride	10	ND	٠ .
•		,	

ND denotes not detected

Surrogate Récovery:

1,2-Dichioroethane-D4	85%
Toluene-D8	98%
4-Bromofiuorobenzene	92%

There were no other volatile compounds present

in the extract.

#### APPENDTX B

CECIL COUNTY HEALTH DEPARTMENT RECORDS
DOCUMENTING RELEASES OF NONHAZARDOUS VASTEVATERS
FROM AIR PRODUCTS INTO SURFACE VATERS

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September 8, 1972

Mr. R. R. Reed, Administrator for the Town of Elkton Town Hall Elkton, Maryland 21921

Dear Dick:

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Please refer to my letter of August 19, 1972 to Water Resources, a copy of which was sent to you, Mr. Brunori's answer to me of September 1, 1972, a copy of which we are enclosing, and Mr. Wasowicg's letter to you of August 17, 1972.

Looks like we draw a complete blank this time.

Very truly yours,

2 mi

David S. Moore Supervising Sanitarian

DSM: vap

COMMISSION
MAURICE SIEGEL
CHAIRMAN
J. HENRY SCHILPP
R. LAMAR GREEN
ROBERT J. McLEOD
DON A. EMERSON

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## STATE OF MARYLAND DEPARTMENT OF WATER RESOURCES

STATE OFFICE BUILDING
ANNAPOLIS, MARYLAND 21401

September 1, 1972



**GEGIL COUNTY HEALTI** 

Mr. David Moore Supervising Sanitarian Cecil County Health Department Elkton, Maryland 21921

Dear Mr. Moore:

In regard to your letter of August 18, 1972, concerning the discharge of industrial waste from Air Products and Chemicals, Inc., to the Elkton STP, the following guide lines are given.

The primary agency to handle and coordinate the problem of improper waste loading to a local STP is the State Health Department. The Water Resources Administration will assist in any way possible and attend any meeting to discuss the problem. However, the State Laws and Regulations exclude our control over any waste discharged to a sanitary system.

Mr. Joseph P. Lewandowski, Chief, Water Quality Control, has contacted Mr. Frank Wasowicz of the State Environmental Health Services, Head of Operations Section, and a copy of Mr. Wasowicz's letter to the town of Elkton has been sent to the both of us.

As stated in that letter, a sewer ordinance or other agreement with the company to limit waste discharges to an acceptable level is the best way to proceed. The County and State Health Departments can advise the town of Elkton on setting up limits for various parameters in the ordinance. The Water Resources Administration will assist in any way possible in this regard.

Very truly yours,

Carlo R. Brunori District Supervisor

CRB: jmb

cc: Mr. Frank Wasowicz

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#### August 18, 1972

Mr. Carlo R. Brunori
District Watershed Manager
Department of Water Resources
Ltate Office Building
Annapolis, Maryland 21401

Dear Mr. Brunori:

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On July 26, 1972 a substantial amount of deleterious industrial wastes was discharged into the Town of Elkton's sanitary sewers and ultimately reached the sewage treatment plant. Due to the electrons on the part of the Elkton Sewerage Disposal Plants personnel, serious consequences were averted. The deleterious material came from Air Products and Chemicals, Inc.

We have had a number of problems in the past with this company discharging these wastes into the Elkton sanitary sewers. I believe that you have a considerable file on this plant, some of which may date back to the time when Air Products and Chemicals, Inc. was known as Colton Chemical.

We would appraciate your reviewing these records. Following this we suggest that a meeting be arranged with the representatives of Air Products and Chemicals, Inc., your department and the Cacil County Health Department. The Town of Elkton requested that the Health Department, or some responsible agency, take necessary action to preclude the possibility of there being future deleterious industrial waste discharges.

The Town of Elkton is anxious to know as soon as possible what action has been taken or is being contemplated.

Very truly yours,

David & Min

David S. Hoore Supervising Sanitarian

DSM: Vap ec Town of Elkton

> Follow by 2 weeker Sept. 1 st



#### DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Neil Solomon, M.D., Ph.D., Secretary

#### ENVIRONMENTAL HEALTH ADMINISTRATION

610 N. HOWARD STREET . BALTIMORE, MARYLAND 21201 . Area Code 301

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383- 2768

August 17, 1972

Mayor and Commissioners of the Town of Elkton Elkton, Maryland 21921

> Re: Elkton - Sewerage Cecil County

#### Gentlemen:

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On July 26, 1972, a substantial amount of deleterious industrial wastes was discharged into the Town's sanitary sewers and ultimately reached the sewage treatment plant. Serious consequences were averted by the very prompt and commendable action on the part of your plant personnel, for the wastes would have rendered the treatment facility virtually useless for a period of time and severely violated the water quality of Big Elk Creek.

We have been informed that similar discharges have occurred in the past. Because of the serious consequences that could arise in the event prompt corrective action cannot be taken, it becomes absolutely imperative that industrial waste discharges be controlled by enforcement of an ordinance if you have such statutory authority. If the Town does not have this authority, the enactment and enforcement of an effective industrial waste ordinance becomes essential, and we urge that you take prompt steps towards the preparation and enactment of appropriate legislation.

We would appreciate hearing from you on the current situation in this matter.

Very truly yours,

Frank J. Wasowicz, P.E. Head, Operations Section Division of Water and Sewerage

FJW:fmz cc: John M. Byers, M.D. At count 4:00 (a). Sunday, Getrayr 20, 1970 I received a tologhout coll from Robert R. Reed, Administrator, Town of Elkton, advising me that a yellow substance was being discharged into the Elkton Sewerage Disposal Plant causing discoloration throughout the easire Sewerage Plant.

Pr. Roed, Mr. Adams from Town Maintenauce, and Mr. Wright, Subgrintendent of the Sewerage Plant, and I met at the plant.

We observed the condition to be as stated, however, outside the fact that the sewage coming into the plant was of a yellow color as was also the effluent leaving the plant, no other adverse effects in the plant was observed. Samples were collected by the plant operator to be submitted to our Central Lab in Baltimore by me on October 25, 1972 when I am scheduled to be in Baltimore. The  $_{\rm P}{\rm H}$  taken at the plant was 6.9.

We visite? Air Reduction Plant on West Main Street in Fikton and found the yellow discharge to be coming from their plant. A pH taken from their plant showed a LR also of 3.9. Mr. Gassandy, plant manager, was called at his homes in Glen Farms and came to the plant. The plant treats their waste and endeavor to discharge a near neutral pH. I requested the plant to shut off their discharge of waste which they immediately did. No sample was collected at Air Reduction. That to compare with the color at the Sewerage Disposal Plant. After we receive our report from the Lab we will discuss possible procedure with the Environmental Health Administration and the Department of Nater Resources.

FSM: Vay

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co Mr. R. R. Peed

cc Dr. 3yers -

cc Mr. ". McLean Bingley

cc Dept. of Water Resources

File cc Air Reduction File

" cc Elkton file

cc Dave Dailey D.D

## Cecil County Health Department

#### MEMORANDUM

To:	File	. Date:	Sept. 18, 1973
From:	D. S. Moore	Re:	Air Reduction

On September 17, 1973 Mr. Fernangle telephoned me upon his return from vacation. He pretty well confirmed information we already had. Stated he did not think it would happen again. I believe he is going to call Dick Reed and Harry Mann from West Main St. who was one of the complainants. Close case and file.

DSM: vap

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## Cecil County Health Department

#### MEMORANDUM

To: File	•	Date:September 4, 1973
From: D. S. Moore		Re: Air Reduction

About 6:20 A.M. Sunday, September 2nd, I received a call from the Elkton Town Police about a pungent odor from Airco.

Visited the site about 6:35 A.M. A thunderstorm was in progress with heavy rain by the time I reached the plant, which would tend to clear up the odor. I talked to the night foreman, Mr. White. He advised me that the plant "Blew a Patch". This apparently means that a batch of the product got too ho in processing causing odors to float across West Main St. and into homes of residences. The process had been shut down by the time I got there and the odor was only slight; however, it might take some time for it to clear up in the houses.

I reported my findings to the Town Police and returned home about 7:00 A.M.

The product is reportedly used in some type of food preservative and is, therefore, harmless. Mr. White advised me that Mr. Gassaway is no longer with

the plant. Mr. Fred Fernangle is now manager but is on vacation.

DSM: vap cc Mr. R. R. Reed

50.52 J.J

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## CECH, COUNTY HEALTH DEPARTMEN Date ..... THE ATTACHED PAPERS ARE REFERI for the first of t Please note and file. Please note and see me about this .......Please prepare reply for my signature. .......Please take charge of this.

quelog he the Trong alm. 2 6:205 received a coll for Of Palice and returned him of the the Ellet Town to apartely real in · Wright side of menting sould as 6:35. athurdenston was in progres with hear hand by the in humler. Mar. while the methor which would tend and arthurit me the technet to the order. I m. White He tolumble That the plant Blen. Patch this appender The product get the L. I mune

## Cecil County Health Department

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Air PS-OUCT

#### MEMORANDUM

To: W. A. Summer	Date: 11/12/73
From: D. Dailey	Re: Elkton Sewer Plant

I met Mr. Belkov and Sat Agrawal from the State Office and Mr. Arthur Wright, the Elkton Sewer Plant operator, at the Elkton Sewer Plant to discuss the effluent that the Air Products Co., located on West Main Street, Elkton, Md., is dumping into the sewer line.

After meeting at the plant, we visited Air Products Co. and talked to Mr. Fernagel, the Plant Supervisor. Mr. Fernagel showed us the method they use to treat for pH and also how they collect the effluent before they dump it into the sewer line. Mr. Fernagel told Mr. Wright to call the plant the next time he observed the white color coming into the sewer plant so he could come down and observe it and also sample.

The meeting actually did not accomplish anything other than to let Mr. Fernagel know that the Health Department is behind the Elkton Sewer Plant.

October 1, 1973

(Dictaged 9/28/73)

Mr. R. R. Reed, Administrator Town of Elkton Elkton, Maryland 21921

Dear Dick:

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At about 7:20 R.M. on September 20, 1973 I received a complaint regarding odors on West Main Street coming from Airco. This complaint was from the Elkton Town Police. I arrived on the scene at about 7:30 P.M. but could not detect any odor driving between Schneiders Restaurant and Jeffers Street. I Parked the car near intersection of Main and Jeffers Street and walked east nearly to traffic light at junction of Main and Landing Lane. No odor was detected, however, when I got nearly opposite the plant on my return to the car, I did detect a very slight odor.

On the Airco property I did detect some odor. In discussing the odor complaint with a plant representative, he stated that some odor had escaped due to overheating one of the batches probably between 7:00 and 7:15 P.M. He felt that it might be possible that a detectable odor was present on Main Street at the time I received the complaint.

Very truly yours,

. Dave (ump)

David S. Mood: Supervising Sanitarian

DSM:vap

New Pro B. 20 5 H Dil. I nvestigated compared and/37/27 / found a white milky substance discharge Deni Gut at Machall Street, Elkton, Md. On 1/39/24 checked Peni Gutto Id found it still running a white milky substa Yisited Airca located on W. Main St. Elet d. and talked to Mi Fernage / the plant ma After some investigation we found a line disc ing into the storm sewer which discharge to Ben's Gutt. Mr. Fernagel Stated he would tak othe necessary steps to provide a temporary corre until a primanent one can be made. Mr. Proce ratified by phone condition D. Dailey Please return to one for follow up. Checked with Mr. Fernegal on above date. Leak has fixed but there is still some laying in pipe. After next t rain prope should be flushed out. Will check then.

(over) D. Deiley

## Cecil County Health Department

# MEMORANDUM

To:	'r. 90		-	Date:	<u> </u>	. 1 : 1:	
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Barl S. Quance, P.E. Program Administrator Water and Sewage Control Programs Department of Health & Mental Hygiene Environmental Health Administration 201 West Preston Street Baltimore, Maryland 21203

Reference: Air Products & Chemicals, Inc.

Dear Mr. Quance:

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Please refer to the following enclosures:

- 1 = August 27, 1979 Order on industrial waste
   disposal.
- 2 Letter to Dr. Buck from Air Products.

Dr. Byers has inquired regarding any possible hazard to the Elkton Sanitary System from this discharge. I felt this would be an appropriate question to be directed to your office and request your comments on the matter.

Very truly yours,

William W. Am

William A. Summer Director

**Bnvironmental Health Services** 

WAS: vap

Enclosures listed above.

#### APPENDIX C

# NOTES AND ANALYTICAL RESULTS FROM PCB TRANSFORMER LEAK

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# State of Maryland Department of Health and Mental Hygiene Office of Environmental Programs 201 West Preston Street, Baltimore, Maryland 21201

## Report of Observations

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# State of Maryland Department of Health and Mental Hygiene Office of Environmental Programs 201 West Preston Street, Baltimore, Maryland 21201

## Report of Observations

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329 WEST MAIN STREET, P. O. BOX 36, ELKTON, MARYLAND 21921 • TELEPHONE: 301 EXPORT 8-2190

27 June 1983

Mr. Ronald Nelson, Director Waste Management Administration Office of Environmental Programs Dept. of Health & Mental Hygiene 201 W. Preson Street Baltimore, Maryland 21201

Dear Mr. Nelson:

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This letter is in response to your Mr. Art Caple's telephone request to Ellis Andersen of my staff. Mr. Andersen phoned Mr. Caple on 21 June 1983 to inform him of the incident discussed below. Mr. Caple requested a written response, citing COMAR 10.51.05.04G(10). We do not believe this regulation specifically applies to the incident discussed below because the spill is not from our hazardous waste facility. Also, according to COMAR 10.51.05.04B (2), the contingency plan (and associated reporting) only need to be carried out when there is a release "which could threaten human health or the environment." We would like to stress that this incident was identified and resolved at our own volition and appears to have had no adverse impact on the environment. However, we are complying with the request, as made.

#### (a) OWNER-OPERATOR

Air Products & Chemicals, Inc. P. O. Box 538
Allentown, Pa. 18105
215-481-4911

#### (b) FACILITY

Air Products & Chemicals, Inc. 329 West Main Street Elkton, Md. 21921 301-398-2190

#### (c) INCIDENT

Date: 17 June 1983 Time: 2:00 P.M.

Type: Discovery of two transformer oil leaks

#### (d) MATERIALS INVOLVED

NAME	QUANTITY	FROM
62 ppm PCB in Oil	Est. < 1 gal.	Standard Transformer (#153940)-Tap Charger Handle
12 ppm PCB in Oil	Est. < 1 qt.	Westinghouse Transformer (#2220204)-Sight Glass

(e) INJURIES None

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#### (f) ENVIRONMENTAL ASSESSMENT

This localized leak of a small quantity of very slightly PCB contaminated transformer oil has been fixed and cleaned. No adverse environmental impact appears to have occurred.

### (g) RECOVERED MATERIAL

The following wastes were collected during clean-up and oil-flushing. A third, non-leaking, transformer was flushed of 161 ppm PCB in oil. The entire seven drum quantity of Transformer Oils was from controlled Transformer flushing to reduce Transformer PCB concentration. All drums will be disposed of through a fully permitted and Air Products approved hazardous waste disposal facility. They are presently being stored on our Hazardous Waste Drum Storage Pad.

# Drums	Drum Size	Contents
1	85 Gal. 55 Gal.	PCB Contaminated Material (Earth, stone & rags contaminated w/<161 ppm PCB in oil &/or 1, 1, 1 - Trichloroethane)
7	55 Gal.	Transformer Oils (contaminated w/<161 ppm PCB &/or l,l,l-Trichloroethane)

If you have any questions, or require further information, please feel free to call me.

BCC: W. H. MacNAIR

J. V. Marschhauser Plant Superintendent

Sincerely.



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July 11. 1983

Mr. Ellis Anderson Air Products & Chemicals Co. 329 W. Main Street Elkton, MD 21921

Dear Ellis:

As discussed in our telephone conversation today, I am sending you the details of the FCB analyses of your soil samples. A

Sample ID/ BAI #	<u> PCB Area</u>	PCB Concppb
Westinghouse/ 240-178-102	179.65	. 80
Standard/ 240-178-103	157.41	71
Control/ 240-178-104	198.78	90 

Results were based on a 60 ppb. FCB 1260 standard, having an area of 133.25.

. Analytical results are being reported as < 1 ppm. in our standard report format.

If you have any further questions, please feel free to call.

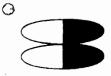
Yours truly,

Colward Bursum (pm)

Edward Barsum

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### BRANDT ASSOCIATES, INC.

CONSULTING ANALYTICAL CHEMISTS P.O. BOX 7571, NEWARK, DE 19714

AIR PRODUCTS & CHEMICALS, INC.

ANALYTICAL

REPORT NO.

240.19511

DATE

7/14/83

SAMPLE NOS. 240-178-102 TO

**建工程的** 

RECEIVED

6/27/83

SAMPLED BY

CUSTOMER -

ELKTON, MARYLAND 21921

MR. E. ANDERSEN

329 W. MAIN ST.

Richard D. Bleam (F

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DEPARTMENT OF HEALTH AND MENTAL HYGIEN
OFFICE OF ENVIRONMENTAL PROGRAMS
WASTE MANAGEMENT ADMINISTRATION

### **PROBLEM / ACTIVITY FORM**

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#### MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE

Laboratories Administration

Howard and Biddle Streets P.O. Box 2355, Baltimore, Maryland 21203

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Lab. No. 83026;

Hazardous Waste Laboratory Organic Analysis Report Form

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Sample ID No. BD-02 Preservative Used	- 116
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*Chlorinated hydrocarbons *see other side for specific compounds	
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O Section Chief: Date: Verified By:	

## MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE Laboratories Administration

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Howard and Biddle Streets P.O. Box 2355, Baltimore, Maryland 21203

Lab. No.

Hazardous Waste Laboratory Organic Analysis Report Form

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# MARYLAND STATE DEPARTMENT OF HEALTH AND MENTAL HYGIENE Laboratories Administration Howard and Biddle Streets

Howard and Biddle Streets P.O. Box 2355, Baltimore, Maryland 21203

Lab. No. 83727

Hazardous Waste Laboratory Organic Analysis Report Form

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### STATE OF MARYLAND - DEPARTMENT OF HEALTH AND MENTAL HYGIENE

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DHMH 749 3/85

Laboratories Administration

201 W. Preston Street

J. Meheen Joseph, Ph.D., Director

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#### APPENDIX D

INSPECTION REPORT AND DOCUMENTATION
FROM REMOVAL OF ABANDONED UNDERGROUND GASOLINE TANK

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TORREY C. BROWN, M.D.

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JOHN R. GRIFFIN



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STATE OF MARYLAND

DEPARTMENT OF NATURAL RESOURCES

#### WATER RESOURCES ADMINISTRATION

TAWES STATE OFFICE BUILDING ANNAPOLIS, MARYLAND 21401

January 7, 1987

Air Products and Chemical, Inc.

329 W. Main Street

Elkton, Maryland 21921

Attn: William J. Stueben

Re: Two below ground systems removed at site

Dear Mr. Stueben:

As per your request, please find a copy of my investigation report in regards to the two tanks that were removed from the ground at your plant in Elkton.

If I can be of further assistance to you, please feel free to contact me at the number listed below.

Sincerely,

Weil a Jones

Neil A. Jones, Inspector Oil Control Division

NAJ: rmg

Enclosure: cited

reference: (301) 974-2104

#### OIL CONTROL DIVIS

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HIELD	INVEST	I GOT T	

Time arrived on-scene: 1 2 4 5 24 Hr.
Facility Name: Air Products and Chemical, Inc. Permit Numbers
Contacted: William J. Stueben Title: Superintendent - Soley
Dennis A. Johnson Plant Superintendent
,
Evidence Collected: Photographs Taken Samples Taken Visual Observation
Site Complaint Issued:YesNo Site Compalaint Number:
OBSERVATIONS: This writer visited the above site this date and time in
reference to two below ground tanks removed from ground. Writer contacta
Mr. Stueben and we visually inspected a 6500 gallon tank. There
were no signs of any preforations. This tank appears to be in good shape.
Mr. Stuebon stated there were no signs of any contamination in the
excavation. This tank is located on north side of property.
The second tank consisted of a 55 gallon drum that was
removed from southeast side of property. This drum was pumped out
sometime ago because Company converted to above ground storage. The
product was pumped out through a tubing inside of drum. The tubing
did not go to bottom of drum so some product was still in the drum.
The drum had preforations in areas above product level. Mr. Stueben stated
soils were contaminated in executation and contaminated soils were removed
and stored in drums and will be dispose of properly. Visited site where drum
was removed and excavition was still open and there was water in excavation
with no signs of contamination. Writer feels confident that all contaminated
soils were removed. No other implementations will be require in relation to
these systems.
SIGNATURE: Yel (1. Jones For more space use reverse side.

CASE CLOSED

Subject Abandoned Undergree

INTEROFFICE MEMORANDUM

To D. A. Johnson

(Location, Organization, or Department

From D. A. Qualls

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(Location, Organization, or Department)

cc: Equipment File

B. Stueben

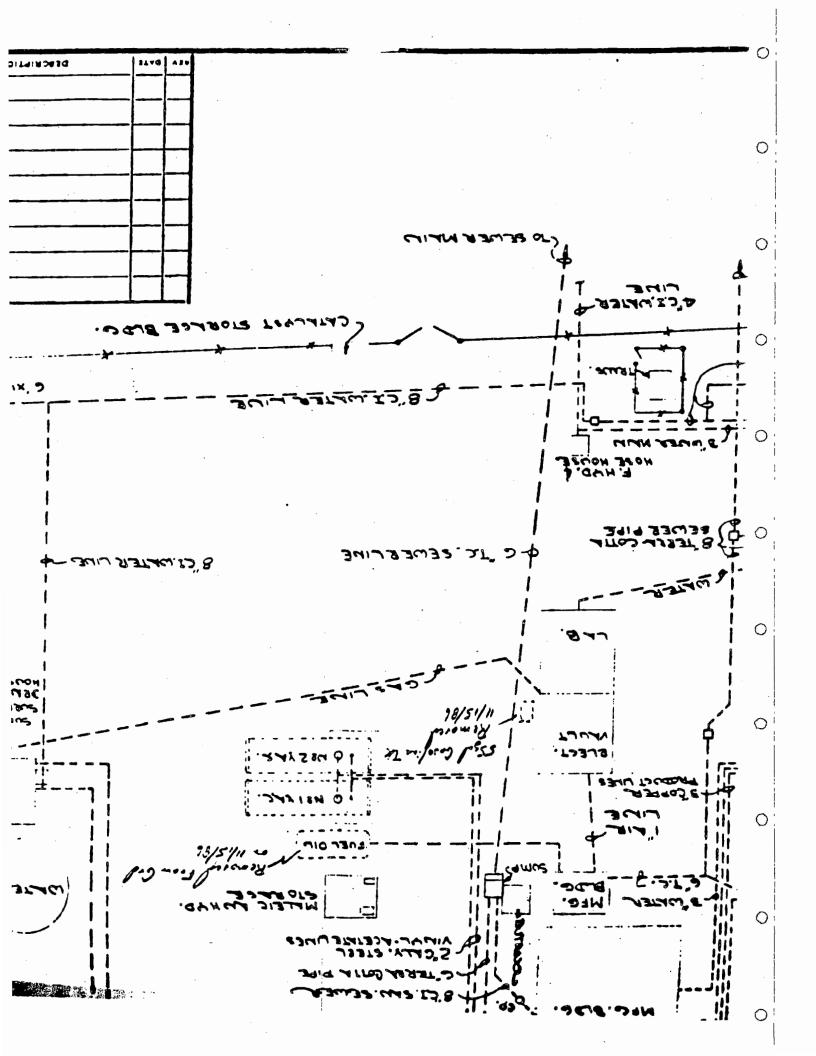
The following underground abandoned tanks were removed from the ground on 11/15/86:

- 1. FB-103 6500 gallon abandoned oil tank located immediately north of the VAc storage tanks.
- 2. FB-524 55 gallon abandoned gasoline tank located under paving immediately east of the electrical vault and just south of the concrete door pad.

See attached plant underground plot plan for detailed location of tanks.

D. A. Qualls

dd





## INTEROFFICE MEMORANDUM

Date_	20	NOVEMBER	1986
Date_	20	NOVEMBER	1986

Subject Maryland Department of Natural

Resources Visit - 11/19/86

To	D. A. Johnson	Elkton
	,	(Location, Organization, or Department)
From_	W. J. Stueben	Elkton
_		(Location Organization or Department)

cc: W. MacNair

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D. Qualls

J. W. Gentile

Neil Jones, an inspector with the Oil Division of the DNR visited the plant to determine if we had done an effective job of removing the abandoned fuel oil (FB103) storage tank and gasoline (FB524) storage tank. (The fuel oil storage tank (FB103) thought to be an 8500 gallon tank turned out to be closer to 6500 gallons). The 55 gallon gasoline storage tank (FB524) rumored to be a 55 gallon drum had turned out to be one and while thought to be empty, actually contained 20 gallons of gasoline.

Neil agreed that the entire operation had been handled professionally, and was generally pleased with the results. He inspected the fuel oil storage tank and agreed that it was in good condition, that there were no breaks of integrity (no holes) and that we could dispose of this tank as we saw fit. He said that he thought the tank was in good enough condition to be recertified and reused. The gasoline storage "tank" had a number of perforations in the metal. Neil inspected the "tank" and agreed that although Maryland normally requires a monitoring well to be installed when such is found, that Elkton would not have to because of the following scenario:

- The tank was removed from service in 1980 and was not used since.
- 2) Gasoline was removed from the tank to the extent possible at the time it was removed from service.
- 3) The gasoline found in the "tank" was below the dip tube (approximately 20 gallons).
- 4) All perforations in the "tank" were above the liquid line and did not result in any leaks to the surrounding soil/ environment. The corrosion probably occurred subsequent to the tank's removal from service.

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5. Any gasoline spilled during removal was in the surrounding soil we had placed in drums. (It had rained and there was water standing in the hole - there was no sign of a sheen on the water).

I agreed to spread the drummed soil on a piece of plastic and allow it to "air" for a day to make sure no gasoline remained before putting it back in the hole left by the "tank". The soil will be checked with an explosivemeter (no reading over background) before putting it back in the hole.

I told Neil that we would let the gasoline tank "air out", then crush it and put in normal trash - he agreed. Neil also agreed to send Elkton a copy of his trip report.

W. J. Stueben

dd



DEPARTMENT OF NATURAL RESOURCES WATER RESOURCES ADMINISTRATION

TAWES STATE OFFICE BUILDING D-3 TAYLOR AVENUE ANNAPOLIS, MARYLAND 21401

NEIL A. JONES SPILL RESPONSE TEAM INSPECTOR

OIL SPILL CONTROL DIVISION

(301) 269 - 2104

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(A Air Products)

**MEMORANDUM** 

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INTEROFFICE Subject EXCAVATED DIRT FROM REMOVAL OF

UNDERGROUND GASOLINE STORAGE TAI

09 JANUARY 1986

To BILL STUEBEN ELKTON

BILL DeBLAKER ELKTON (Location, Organization, or Department)

(Location, Organization, or Department)

During the week ending 05 Dec 1986, the three (3) drums of excavated dirt was spread out on plastic to allow drying. On 08 Dec 1986 pictures of the dirt spread out on the plastic were taken and placed in the equipment files. Paul Shamblin and I took readings of the direction with the MSA Explosimeter and determined the dirt was clean. The dirt was then spread on the ground behind the effluent tanks. The results of the MSA explosimeter tests are as follows:

#### Drum #1

- a) 0.0
- ъ) 0.0
- c) 0.0

#### Drum #2

- a) 0.0
- ъ) 0.0
- c) 0.0

#### Drum #3

- a) 0.0
- ъ) 0.0
- c) 0.0

The excavated hole where the gasoline tank was located has been backfilled with clean fill dirt.

This action meets the recommendations made by the State of Maryland D.N.R. Rep. (Mr. Neil A. Jones) that reviewed this project with you.

William J. DeBlaker

mg

Copy: D. A. Johnson

D. A. Qualls

File

#### APPENDIX E

SHIPPING MANIFEST FOR HAZARDOUS CAUSTIC METHANOL CLEANING SOLUTION AND LABORATORY WASTE

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## State of New Jersey Department of Environmental Protection Division of Waste Management

Division of Waste Management CN 028, Trenton, NJ 08625 1031-004

(Form designed for use on elite (12-pitch, cysewhiters) Form Approved OME Vo. UNIFORM HAZARDOUS N' mitest not rea-·WASTE MANIFEST M DD C & CHEMICALS, INC 223 W HAIN STREET AR PRODUCTS" LKTUN, I'D Eldkebge, Inc West Chester, PA Designated Facility Name and Site Address DuPont Chamber Works RTE 130 KJ DO. 0. 23, 85 ,7, 30 08023 DEEPWATER, NJ 11 GS 001 Description (Including Proper Shipping Name, Hazard Class, and ID Number) Totat Waste No. Quantity Wt/Vol : No Туре FLAMMABLE LIQUID, CORROSIVE, NOS UN2924/R9 100P D002 001 use eat t 5 19<u>8</u>9 0 Additional Descriptions for Materials Listed Above 15% SODIUM CONTAINS APPROX: 10% POLYVINYL ACETATE IQUID SPECIFIC GRAVITY APPROX 0 Special Handling Instructions and Additional Information #0W-1031 DUPONT CONTRACT MARYLAND PERMIT GENERATOR'S CERTIFICATION. I hereby declare that the conte runsianment are fully and accurately described above by coper of coing name and are classified, packed, marked, and labuled, and are in all respects in proper condition for transport by highway  $\odot$ recording to applicable international and national government regulations If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically prosticable and that I have selected the practicable inethod of treatment, storage, or disposal currently available to me which minimizes the present and tutory threat followman health and the environment, OR, if I am a small quantity generator. I have made a good faith effort to minimize my waste generation and selec the best waste management method that is available to me and that I can afford Printed Typed Name V. Van Hulle, Plant Manager  $\odot$ 1.7 Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name WILBERT W. HURRS JO 8 Transporter 2 Acknowledgement of Picceipt Materials Printed Typed Name  $\bigcirc$ 1 y Discrepancy Indication Spar-Faculty Owner or a in item (3)

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